

How do I Weld my intra 2100/1400?

Turn on the INTRA 2100/1400. When the welding device is turned on, the "System voltage" LED goes on. The welding gun is supplied with 90 VDC and 24 VDC. Select the appropriate weld process (short cycle/drawn arc). The operating mode selector switch setting determines the weld time range.

How to connect a welding gun to a control device?

The welding cable of the welding gun (10*) is connected to the connector socket X20 (7*). This plug connection is secured by turning the plug rightward to the stop. To increase the work area, an extension cable (9*) can be connected between the control device and the welding gun.

How to connect a welding gun with automatic stud loading?

When connecting a welding gun with automatic stud loading, the pneumatic connections on the sorter and welding gun must be checked. The instructions and information required for this are found in the specific devices' operating manuals. Make sure that the electrical and, if present, pneumatic line routing poses no danger of people tripping.

How do you determine the optimal weld parameters?

The optimal weld parameters must always be determined in consideration of factors such as material and surface characteristics of the workpiece, sheet metal thickness, welding position, stud type, stud dimensions, etc., through test welds. Make sure the test welds reflect real conditions during the production process as much as possible.

How does a weld gun work?

When the release button is pressed on the welding gun, the stud lifts and an auxiliary arc is created. Then the main arc is ignited; the stud and the base material fuse. After the weld time is over, spring pressure presses the stud into the liquid weld pool. The bond is created a few tenths of a second after the release button is pressed.

Where can I find information about arc stud welding?

In addition, we recommend looking through DVS leaflet 0902 "Arc stud welding with drawn arc" and DGUV information 209-010 "Arc welding", as well as standards EN ISO 14555 "Welding - Arc stud welding of metallic materials" and EN ISO 13918 "Welding - Studs and ceramic ferrules for arc stud welding".

Once high power and energy capability are demanded in specific scenes, like solar energy storage panels, automotive starter devices and energy storage devices for small electric ...

Download scientific diagram | The energy storage circuit. from publication: Modular Power Supply for Micro Resistance Welding | The study is devoted to the important issue of enhancing the ...

A new five-axis automatic welding robot system based on a surface tracking control algorithm is designed for plasma arc welding on corrugated surfaces, which can realize ...

In the process of welding zinc-coated steel, zinc vapor causes serious porosity defects. The porosity defect is an important indicator of the quality of welds and degrades the durability and productivity of the weld. ...

The ARC stud welding process produces weld power through one of three standard DC welding power sources. These are Transformer-Rectifier type, Motor/Generator type, or Storage ...

Figure 2. An example of BESS architecture. Source Handbook on Battery Energy Storage System Figure 3. An example of BESS components - source Handbook for Energy Storage Systems . PV Module and BESS ...

Keywords Voltage control Energy storage Reactive power margin 1 Introduction In recent years, energy storage of power generation technology is developing rapidly in power grid [1-3]. The ...

This production line is used for automatic assembly of energy storage cabinets. All single machine equipment and distributed systems interact with MES through a scheduling system, achieving ...

Liquefied natural gas (LNG) is commonly transported by LNG carriers and stored in cargo containment systems. The primary barrier of the MARK III cargo containment system ...

The invention discloses a welding table of an energy storage cabinet, which comprises a bottom plate, wherein a plurality of limiting cushion blocks are arranged on the bottom plate and...

Understanding the circuit diagram of a PV system with storage is crucial for homeowners looking to make the leap, as it provides the blueprint for effective energy capture, ...

sources of energy grows - so does the use of energy storage systems. Energy storage is a key component in balancing out supply and demand fluctuations. Today, lithium-ion battery energy ...

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The utilization of hybrid energy storage such as battery-supercapacitor combination in the resistance welding application can make a negative effect on the current pulse shaper circuit.

In the past few decades, electricity production depended on fossil fuels due to their reliability and efficiency [1]. Fossil fuels have many effects on the environment and directly ...

The research task described in this paper was liquid-tight welding of 18650 Li-ion battery cells to form units with high capacity in an energy storage device. The necessary welding parameters ...

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